

## CEMENT CERTIFICATE

Plant : Suez	Sampling Date : AV.	June , 2021
Taken Place : Av. Shipment	Reporting Date :	July , 2021
Cement Type: CEM II B/P 42.5 N	Specs : E.S 4756-1/2013 & EN 197-1/2011	

CHEMICAL REQUIREMENTS	Results	Standard Values	
		Min	Max
Loss On Ignition	%	2.95	-
Sulfur Trioxide (SO <sub>3</sub> )	%	2.80	3.00
Chloride(CT)	%	0.05	0.10
hexavalent chromium(Cr <sup>+6</sup> )	ppm	1.44	2.00

### PHYSICAL REQUIREMENTS

Specific Surface (Blaine)	cm <sup>2</sup> /g	3650	-	-
2 Days Compressive Strength	N/mm <sup>2</sup>	17.71	-	-
7 Days Compressive Strength	N/mm <sup>2</sup>	29.40	-	-
28 Days Compressive Strength	N/mm <sup>2</sup>	47.80	42.50	62.50
Initial Setting Time	min	165	60.00	-
Soundness (Le Chatelier )	mm	1.00	-	10.00

#### \*ASSESSMENT:

- The above results complying with requirements of EN 196-5 / 2005
- Soundness and setting time tests were carried out as per EN 196-3
- Specific surface area test was carried out as per EN 196-6
- Compressive strength test was carried out as per EN 196 - 1 part 1-2005.



Quality Manager  
Dr. Ashraf Fahim

*Ashraf Fahim*

\*This report can not be revised without permission of test laboratory.  
\*Test results are belongs to the person whose ordered.



## CEMENT CERTIFICATE

Plant : Suez	Sampling Date : AV.	June , 2021
Taken Place : Av. Shipment	Reporting Date :	July , 2021
Cement Type: MC12.5X	Specs : E.S 4756-1/2013 & EN 197-1/2011	

CHEMICAL REQUIREMENTS	Results	Standard Values	
		Min	Max
Loss On Ignition	%	18.00	
Insoluble Residue	%	1.11	
Sulfur Trioxide (SO <sub>3</sub> )	%	2.81	3.50
Chloride(Cl)	%	0.050	0.10
hexavalent chromium(Cr <sup>+6</sup> )	ppm	1.35	2.00

### PHYSICAL REQUIREMENTS

Specific Surface (Blaine)	cm <sup>2</sup> /g	3700	-	-
The Residue on a 90um	%	5.00		15.00
2 Days Compressive Strength	N/mm <sup>2</sup>	7.10		-
7 Days Compressive Strength	N/mm <sup>2</sup>	12.33	7.00	-
28 Days Compressive Strength	N/mm <sup>2</sup>	18.45	12.50	32.50
Initial Setting Time	min	165	60.00	360
Soundness (Le Chatelier )	mm	1.00	-	10.00

#### \*ASSESSMENT:

- The above results complying with requirements of E.S 4756-1/2013 Part 1 & EN 197-1/2011.
- Soundness and setting time tests were carried out as per ES 2421 part1-2005.
- Specific surface area test was carried out as per ES 2421 part 6-2005.
- Compressive strength test was carried out as per ES 2421 part 7-2005.



Quality Manager  
Dr. Ashraf Fahim

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